



NanoVIP<sup>®</sup> ONE<sup>™</sup> is an analyzer equipped with a wide range of measurements for monitoring both electricity consumption and power quality.

Particularly compact and light, it uses commercial AA batteries (rechargeable or not), has a considerable internal storage capacity (4Gb) and a graphic display. An economic analyzer but suitable for professional use.

#### COMPACT, LIGHT AND POWERFUL

- 128x128 graphic LCD that allows a wide display flexibility (multilingual menu, waveforms, histograms, diagrams, images, etc.)
- Dedicated NanoStudio PC software through which it is possible to perform advanced analyzes of stored data
- 1 voltage measurement channel (1 phase + neutral) up to 600V CAT III, with the possibility of measuring also the DC voltage, with an accuracy of ± 0.5% + FS error
- 1 current input with the possibility of measuring also the DC current, with the accuracy of ± 0.5% + FS err
- Capability to use flexible clamps of 3000/ 6000A or other sensors with full scale set by the user
- Can be used with AA commercial batteries (rechargeable or not) or with external power supply (optional) for prolonged campaigns.
- 10 alarms (generic, swells, dips and interruptions)
- 4Gb internal memory for measurements savings
- Multifunction keyboard
- USB output for download/upload measurements, setup and remote control
- Buzzer for errors and alarms
- Harmonic analysis up to the 25th degree
- Oscillo function for continuous capture of a channel (rms voltage or current)
- Start/Stop counters function for quick





ASE:	
Dimensions	175x80x32mm
Material	ABS with self-extinguishing V0 grade
Protection class	IP30
Weight	220 g (315g including batteries)
DISPLAY:	
Dimensions	42x50mm
Туре	128x128 STN Negative dot matrix graphic LCD
Backlight	White LED
Languages	English - Spanish - Italian - German - French
EYPAD:	
Туре	Membrane keypad with 7 double-function keys
POWER SUPPLY:	
External power supply (Optional)	wall-plug switching; input 100-240VAC ±10% 47-63Hz with interchangeable plug; output 7.5VDC - 12
Battery	4 x AA commercial 1.5V Alcaline or rechargeable NiMh
Duration of the battery charge	Up to 24h (depending from AA battery type)
CONNACTABLE SYSTEMS:	
Systems frequencies	50Hz 60Hz
Single phase	~
Two phase	•
Three-phase, 3-wires, balanced	······································
Three-phase, 3-wires, unbalanced	-
Three-phase, 4-wires, balanced	
Three-phase, 4-wires, unbalanced	
CONNECTIONS:	
Voltages	Flexible cables L = 1.5m; 2.5mm <sup>2</sup> - 36A; 1000V CAT III - 600V CAT IV with a 4mm, protected blade plu connector, crocodile clip with a 45mm opening (for sections up to 32mm)
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Currents	Elcontrol Energy Net interchangeable amperometric sensors
Currents Solar radiation	Elcontrol Energy Net interchangeable amperometric sensors
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Solar radiation PT100	Elcontrol Energy Net interchangeable amperometric sensors
Solar radiation PT100 Anemometer	Elcontrol Energy Net interchangeable amperometric sensors
Solar radiation PT100 Anemometer Transducers	Elcontrol Energy Net interchangeable amperometric sensors
Solar radiation PT100 Anemometer	- - - V, I, P, Q, S, F, PF, THD(V)%, THD(I)%, cosφ, φ, peaks, minimums, maximums, averages, ma
Solar radiation PT100 Anemometer Transducers FUNCTIONS:	• • • •
Solar radiation PT100 Anemometer Transducers FUNCTIONS: Traditional electrical analisys Three phase counters	- - - - V, I, P, Q, S, F, PF, THD(V)%, THD(I)%, cosφ, φ, peaks, minimums, maximums, averages, max demands, etc.
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Solar radiation PT100 Anemometer Transducers FUNCTIONS: Traditional electrical analisys Three phase counters Cogeneration Waveforms	- - - - - - - - - - - - - - - - - - -
Solar radiation PT100 Anemometer Transducers FUNCTIONS: Traditional electrical analisys Three phase counters Cogeneration Waveforms Harmonics	- - - - - V, I, P, Q, S, F, PF, THD(V)%, THD(I)%, cosφ, φ, peaks, minimums, maximums, averages, max demands, etc. kWh, kVArh, kVAh, both absorbed that generated ✓
Solar radiation PT100 Anemometer Transducers UNCTIONS: Traditional electrical analisys Three phase counters Cogeneration Waveforms Harmonics Oscillo	- - - - - - - - - - - - - - - - - - -
Solar radiation PT100 Anemometer Transducers FUNCTIONS: Traditional electrical analisys Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags	- - - - - - - - - - - - - - - - - - -
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Solar radiation PT100 Anemometer Transducers UNCTIONS: Traditional electrical analisys Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance	- - - - - - - - - - - - - - - - - - -
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Solar radiation PT100 Anemometer Transducers <b>UNCTIONS:</b> Traditional electrical analisys Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance Test EN 50160 Inrush current DC measures	- - - - - - - - - - - - - -
Solar radiation PT100 Anemometer Transducers <b>EUNCTIONS:</b> Traditional electrical analisys Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance Test EN 50160 Inrush current DC measures K factor	<ul> <li>V, I, P, Q, S, F, PF, THD(V)%, THD(I)%, cosø, ø, peaks, minimums, maximums, averages, ma demands, etc.</li> <li>kWh, kVArh, kVAh, both absorbed that generated</li> <li>V &amp; I</li> <li>Values and histograms up to the 25<sup>th</sup> order</li> <li>-</li> <li>-</li></ul>
Solar radiation PT100 Anemometer Transducers <b>UNCTIONS:</b> Traditional electrical analisys Three phase counters Cogeneration Waveforms Harmonics Oscillo Sags Transients Unbalance Test EN 50160 Inrush current DC measures	- - - - - - - - - - - - - -







Energy costs	-
IEC 61724 network parameters	•
Test EN 82.25	
OSU™ (One Shot UPS)	
Measurament campaigns	Up to 68800 records
ASUREMENTS:	
Sampling frequency	128 samples per cycle (adaptive in 40Hz-70Hz range)
Data record rate	1 sec.
Data storage rate	User selectable: 1", 5", 10", 30", 1', 5', 10', 15'
Type of connections available	Three-phase (3 or 4 leads balanced), single phase grid and DC
Type of grid which can be connected	Low and medium voltage (LV and MV)
VOLTAGE (TRMS)	
Channels	1 channel
Input impedance	4 Mohm
Scales	2
Direct measurement	Phase-phase: 7-690VAC 40-70Hz Phase-neutral: 5-400VAC 40-70Hz
Measurement with VT	Ratio: 1-60000 Maximum value which can be displayed: 20MV
Permanent overload	Phase-phase: 900VAC Phase-neutral: 600VAC
Sensitivity	5VAC Phase-neutral, 7VAC Phase-phase, 10VDC
CURRENT (TRMS)	
Channels	1 channel
Input impedance	10KOhm
Scales	4
Measurement with current clamps	Ratio: 1-60000 Maximum value which can be displayed: 500KA
Sensitivity	0,2% of F.S.
POWERS	
Single phase power	Values < 999 GW, Gvar, GVA
Total power	Values < 999 GW, Gvar, GVA
POWER COUNTERS	
Maximum value before reset	99999999 kWh, kvarh, kVAh
ACCURACY	
RMS voltages:	
	±0.5% + 0.2%FS <sup>(2)</sup> @ RMS V < 350VAC <sup>(1)</sup>
	±0.5% + 0.1%FS <sup>(2)</sup> @ RMS V > 350VAC <sup>(1)</sup>
RMS currents:	
	±0.5% + 0.2%FS <sup>(2)</sup> @ RMS I < 5% IN clamp <sup>(1)</sup>
Scale 2	
Scale 3	
Scale 5 Scale 4	
Power	±1.0% + 0.2%FS (2)
Power Factor (PF)	±0.5°
Frequency	±0.01 Hz (40-70Hz)
Active power count (kW)	
Reactive power count (kVar)	Class 2
HARMONIC ANALISYS MMUNICATION:	Up to 25 <sup>th</sup> order









MRH™	-
Server mode	•
Connectable MRH <sup>™</sup> clients	-
Client mode	•
Zigbee®	
Maximum distance outdoor	•
Maximum distance indoor	•
Mesh network	•
Wireless to PC	•
USB	to PC
DATA STORAGE:	#1#
Internal memory	4Gb
External memory	-
	•
OPERATING CONDITIONS:	
Operating temperature	-10 to +55 °C
Storage temperature	-20 to +85 °C
Relative humidity	Max 95%
Maximum altitude a.s.l. (600V CAT III)	2000 m
EC COMPLIANCE:	
Directives	93/68/EEC (Low Voltage Electrical Equipment);
	89/336/EEC and 2004/108/EC (EMC - Electromagnetic Compatibility);
	2006/95/EC - 72/23/EEC (LVD - Low Voltage Directive);
	2002/95/EC (RoHS - Restriction of Hazardous Substances); 2002/96/EC and 2003/108/EC (WEEE - Waste Electrical and Electronic Equipment);
	IEC 61724
REFERENCE STANDARDS:	
Safety	EN 61010-1
Electromagnetic Compatibility (EMC)	EN 61326
	EN 61326/A1
	EN 61326/A2
	EN 61326/A3
Temperature	IEC 60068-2-1 (Operating temperature)
	IEC 60068-2-2 (Storing temperature)
Vibrations	IEC 60068-2-6
Vibrations Humidity	IEC 60068-2-6 IEC 60068-2-30 (Humidity)



#### **Elmeasure India Private Limited**